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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/874,563	06/05/2001	John Atcheson	REALNET.054C1C1	6917
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	E, WILLIAMSON & WYA	HAYES, I	HAYES, JOHN W	
	PACWEST CENTER, SUITES 1600-1900 1211 SW FIFTH AVENUE			PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/874,563	ATCHESON ET AL.			
	Office Action Summary	Examiner	Art Unit			
		John W Hayes	3621			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION.  Insions of time may be available under the provisions of 37 CFR 1.1  SIX (6) MONTHS from the mailing date of this communication.  In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
· —	Responsive to communication(s) filed on <u>24 Ja</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro				
Disposit	ion of Claims					
5)⊠ 6)⊠	Claim(s) 1-7,9-18,20,25-28,30,36-38 and 42-44 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 11-14 and 38 is/are allowed.  Claim(s) 1-7,9,10,15-18,20,25-28,30,36,37 and 42-44 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>05 June 2001</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	$\boxtimes$ accepted or b) $\square$ objected to the drawing(s) be held in abeyance. See ion is required if the drawing(s) is objection.	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority ι	ınder 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior  application from the International Bureau  see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachmen	t(s)					
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e			

Application/Control Number: 09/874,563 Page 2

Art Unit: 3621

#### **DETAILED ACTION**

#### Status of Claims

1. Claims 39-41 have been canceled in the amendment filed 24 January 2005. Claims 8, 19, 21-24, 29 and 31-35 have been previously canceled. Thus, claims 1-7, 9-18, 20, 25-28, 30 and 36-38 and 42-44 remain pending and are presented for examination.

### Response to Arguments

- 2. Applicant's arguments filed 24 January 2005 have been fully considered but they are not persuasive.
- Applicant argues that the reference to Nordgren is not an enabling reference since it is not clear how the recommendations are generated. Examiner respectfully disagrees and submits that the reference to Nordgren appears to be enabling for at least the limitations of the claims. With respect to claim 1, examiner submits that the limitation "receiving signals from the first input device that indicate at least one of a plurality of user preferences" is equivalent to the user picking at least one favorite movie as disclosed in Nordgren. The limitation "comparing at least a subset of the user preferences against the plurality of datafiles in the database to identify matching datafiles, each matching datafile containing preferences matching at least a threshold number of the indicated user preferences" is equivalent to finding other persons who liked the same movie as disclosed by Nordgren. Examiner also notes that the "threshold number" may simply be one favorite movie, for example. The limitation "selecting preferences from the identified datafiles, wherein the selected preferences do not match the user preferences" is equivalent to selecting other movies that other viewers liked, but not the user's favorite as disclosed by Nordgren. Examiner also submits that the teachings of Nordgren, such as searching a database to find records of users having similar movie selections are enabling to one having ordinary skill in the database art and examiner submits that Nordgren provides enough detail to enable one having ordinary skill in the art to build the system at least in accordance with the claim limitations.
- 4. Applicant further argues that the examiner could not perform the required difference determination and proper obviousness analysis required by law. Examiner respectfully disagrees in light of the

Art Unit: 3621

Page 3

by the examiner in relation to these limitations.

5. As per Claims 9-10, applicant argues that Nordgren fails to disclose the dual determining operations

discussion above related to the claim limitations and how the reference to Nordgren has been interpreted

as recited in the claim. Examiner respectfully disagrees and notes that the purpose of the product

disclosed by Nordgren is to recommend a list of movies that might be enjoyable to the user, but

unmatched from the original list of favorites that were selected by the user (In other words, movies that

the user has not viewed) based on similar tastes of other users. The user in Nordgren inputs a plurality of

user preferences (list of favorite movies) and this is compared with other users having similar tastes such

as, for example, the same movie favorites. Thus, one having ordinary skill in the art can see that

Nordgren provides recommended movie selections wherein the user preferences are unmatched.

6. As per Claims 15, 25 and 42, applicant argues that Nordgren fails to disclose identifying a (first) set of

objects and then generating a combined set of objects from the identified (first) set of objects. Examiner

respectfully disagrees and submits that Nordgren discloses identifying at least one set of objects having

at least a threshold of similarities in common with the first set of objects such as searching a database

and finding a list of other users that have the same favorite movies (set of objects), the threshold of

similarities being the same movie titles. Nordgren further discloses generating a list of movies as

recommendations (combined set of objects from the identified at least one set of objects).

Terminal Disclaimer

7. The terminal disclaimer filed on 11 November 2003 disclaiming the terminal portion of any patent

granted on this application which would extend beyond the expiration date of U.S. Patent No. 5,583,763

has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Objections

8. Claims 39-41 depend upon claim 21 which has been canceled. For purposes of this Office Action,

examiner assumes that claims 39-41 depend upon claim 14.

Application/Control Number: 09/874,563 Page 4

Art Unit: 3621

## Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-7, 9-10, 15-18, 20, 25-28, 30, 36-37 and 42-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nordgren, Layne "Taste Mate Video Selection System" [hereinafter referred to as Nordgren] in view of Hey, U.S. Patent No. 4,996,642.

As per <u>Claims 1 and 4-7</u>, Nordgren discloses a method for outputting recommended preferences to be executed on a computer system, wherein the computer system includes a processor, a database, a first input device and an output device, and wherein the database includes a plurality of datafiles each containing a plurality of predetermined preferences, the method comprising:

- accepting signals from the first input device to Indicate a plurality of user preferences (paragraphs 6 and 8);
- comparing at least a subset of the user preferences against the plurality of datafiles in the database to identify matching datafiles, each matching datafile containing preferences matching at least a threshold number of the indicated user preferences (paragraphs 6 and 8);
- selecting preferences from the identified datafiles, wherein the selected preferences do not match the user preferences (paragraphs 6 and 8); and
  - outputting, via the output device, the selected preferences (paragraphs 6 and 8).

Nordgren discloses comparing a users preferred or favorite movies with that of other users who have similar movie tastes (the threshold number of matches being the same favorite movies between different users) and provides a recommended list of movies to the user. Nordgren does not explicitly teach selecting preferences that do not match the user preferences, however this would have been

Art Unit: 3621

obvious to one having ordinary skill in the art at the time of applicants invention in view of the teachings of Nordgren. The purpose of the product disclosed by Nordgren is to recommend a list of movies that might be enjoyable to the user, but unmatched from the original list of favorites that were selected by the user (In other words, movies that the user has not viewed) based on similar tastes of other users. The user in Nordgren inputs a plurality of user preferences (list of favorite movies) and this is compared with other users having similar tastes such as, for example, the same movie favorites. Thus, one having ordinary skill in the art can see that Nordgren provides recommended movie selections wherein the user preferences are unmatched.

Hey teaches a system and method for recommending items, including movies and music, to a selected user from a database of items sampled by other user and not the selected user. Hey further teaches that the system includes a keyboard input, display, processing means and a database that stores files indicating each user's sampled items and their rating for the sampled item. The database is searched to match the selected user's sampled items with those of the other users. After matching and additional processing, other users files are identified as "recommending users" due to the degree of agreement between the identified files and the selected user's file. From the recommending users' files Hey determines and ranks non-matching items and presents the list to the selected user. Hey also teaches that the system can receive input or provide output to a remote user. See the entire document of Hey.

Hey further teaches that in determining the "agreement scalar" that is used to identify the recommending users, the number of items sampled by both members is considered in the calculation of the agreement scalar. Hey also teaches that "it is evident that the greater the number of items that the users have sampled, the more accurate the agreement scalar should be for each of the users with which the selected user is paired". As Hey is obviously interested in providing accurate recommendations of items, as Hey teaches that low number of items sampled in common decreases accuracy, and as thresholding is a well known technique for eliminating conditions that do not warrant consideration, it would have been obvious to those of ordinary skill in the art to modify the teachings Nordgren to include well known thresholding as suggested by Hey in order to increase accuracy of recommendations and to save processing time on user files that would obviously yield unacceptable results. With regard to the

number of items in the file and the threshold number, these limitations would have been an obvious matter of design optimization to those of ordinary skill in the art for the accuracy desired and the storage space available.

As per <u>Claims 2-3</u>, Nordgren further discloses identifying specific movies, but fails to explicitly disclose artists names. Hey discloses wherein the user profile includes rating information for items that the user has sampled and further discloses that the items are identified by title (Table 1). Hey, however, fails to explicitly disclose wherein the user profile indicates an artist's name. Examiner submits, however, that it is well known that an object such as a movie or song would be identified by either the title or the artists name and it would have been obvious to one having ordinary skill in the art to identify the object using any known identifier. This would provide the benefit of identifying an object by any number of identifiers known to the user.

As per <u>Claims 9-10 and 36-37</u>, Nordgren discloses a method for outputting recommended preferences to be executed on a computer system, wherein the computer system includes a processor, a database, a first input device and an output device, and wherein the database includes a plurality of datafiles each containing a plurality of predetermined preferences, the method comprising:

- storing a plurality of associated selections in a database (paragraphs 6 and 8);
- accepting signals from the first input device to Indicate a plurality of user preferred selections (paragraphs 6 and 8);
- determining that a number of the preferred selections match with the plurality of associated selections in the database (paragraphs 6 and 8);
- determining a number of unmatched associated selections in the database (paragraphs 6 and 8); and
  - outputting, via the output device, the unmatched associated selections (paragraphs 6 and 8).

Nordgren discloses comparing a users preferred or favorite movies with that of other users who have similar movie tastes (the threshold number of preferences being the same favorite movies between

Art Unit: 3621

different users) and provides a recommended list of movies to the user. Nordgren does not explicitly teach determining a number of unmatched selections in the database, however this would have been obvious to one having ordinary skill in the art at the time of applicants invention in view of the teachings of Nordgren. The purpose of the product disclosed by Nordgren is to recommend a list of movies that might be enjoyable to the user, but unmatched from the original list of favorites that were selected by the user (In other words, movies that the user has not viewed) based on similar tastes of other users. The user in Nordgren inputs a plurality of user preferred selections (list of favorite movies) and this is compared with other users having similar tastes such as, for example, the same movie favorites. Thus, one having ordinary skill in the art can see that Nordgren provides recommended movie selections wherein the user preferred selections are unmatched.

Hey teaches a system and method for recommending items, including movies and music, to a selected user from a database of items sampled by other user and not the selected user. Hey further teaches that the system includes a keyboard input, display, processing means and a database that stores files indicating each user's sampled items and their rating for the sampled item. The database is searched to match the selected user's sampled items with those of the other users. After matching and additional processing, other users files are identified as "recommending users" due to the degree of agreement between the identified files and the selected user's file. From the recommending users' files Hey determines and ranks non-matching items and presents the list to the selected user. Hey also teaches that the system can receive input or provide output to a remote user. See the entire document of Hey.

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Art Unit: 3621

well known thresholding as suggested by Hey in order to increase accuracy of recommendations and to save processing time on user files that would obviously yield unacceptable results.

As per <u>Claims 15-18, 20, 25-28, 30 and 42-44</u>, Nordgren discloses a multi-user computer system that provides user access to a database of objects, a method of recommending objects to a user, the method comprising;

- identifying on a remote computer, a first set of objects determined to be of interest to a first
  user; the first set of objects identified from a plurality of objects determined to be of interest to a
  community of users and represented by one or more data structures (paragraphs 6 and 8);
- using a processor to access the one or more data structures to identify at least one set of objects having at least a threshold of similarities in common with the first set of objects (paragraphs 6 and 8);
- generating a combined set of objects from the identified at least one sets of objects (paragraphs 6 and 8); and
  - transmitting to the user computer the combined set of objects (paragraphs 6 and 8)

Nordgren discloses comparing a users preferred or favorite movies with that of other users who have similar movie tastes (the threshold of similarities in common being the same favorite movies between different users) and provides a recommended list of movies to the user.

Hey teaches a system and method for recommending items, including movies and music, to a selected user from a database of items sampled by other user and not the selected user. Hey further teaches that the system includes a keyboard input, display, processing means and a database that stores files indicating each user's sampled items and their rating for the sampled item. The database is searched to match the selected user's sampled items with those of the other users. After matching and additional processing, other users files are identified as "recommending users" due to the degree of agreement or similarity between the identified files and the selected user's file. From the recommending users' files Hey determines and ranks non-matching items and presents the list to the selected user. Hey also teaches that the system can receive input or provide output to a remote user. See the entire document of Hey.

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## Allowable Subject Matter

11. Claims 11-14 and 38 are allowable over the prior art of record.

#### Conclusion

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3621

13. Any inquiry concerning this communication or earlier communications from the examiner should

Page 10

be directed to John Hayes whose telephone number is (571)272-6708. The examiner can normally be

reached Monday through Friday from 5:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim

Trammell, can be reached on (571)272-6712.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

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Hand delivered responses should be brought to the Customer Service Window, Randolph

Building, 401 Dulany Street, Alexandria, VA 22314.

John W. Hayes

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Art Unit 3621